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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/16/2003

Chun M. Ng
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
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12400 Wilshire Boulevard
Los Angeles, CA 90025-1026

EX.	AMIN	ER		

KANG, DONGHEE

ART UNIT

CLASS-SUBCLASS

2811

257-347000

DATE MAILED: 05/16/2003

l	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/865,929	05/24/2001	Min-hwa Chi	004192.P053D	4893

TITLE OF INVENTION: TRANSISTOR AND LOGIC CIRCUIT ON THIN SILICON-ON-INSULATOR WAFERS BASED ON GATE INDUCED DRAIN LEAKAGE CURRENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	08/18/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents Alexandria, Virginia 22313-1450 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Fax

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I)

7590

05/16/2003

Chun M. Ng BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Depositor's name)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/865 929	05/24/2001	Min-hwa Chi	004192 P053D	4902

TITLE OF INVENTION: TRANSISTOR AND LOGIC CIRCUIT ON THIN SILICON-ON-INSULATOR WAFERS BASED ON GATE INDUCED DRAIN LEAKAGE CURRENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	08/18/2003
EXAMP	NER	ART UNIT	CLASS-SUBCLASS	·	
KANG, DO	NGHEE	2811	257-347000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a mem attorney or agent) and the name registered patent attorneys or ag is listed, no name will be printed.	patent attorneys) the name of a ber a registered mes of up to 2 ents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent)

4a. The following fee(s) are enclosed:

□ Issue Fee

□ A check in the amount of the fee(s) is enclosed.

□ Publication Fee □ Payment by credit card. Form PTO-2038 is attached.

☐ Advance Order - # of Copies _____ ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature) (Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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09/865,929	05/24/2001	05/24/2001 Min-hwa Chi		4893	
75	90 05/16/2003		EXAMINI	ER	
Chun M. Ng BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			KANG, DONGHEE		
			ART UNIT	PAPER NUMBER	
			2811		
Los Angeles, CA 9	0023-1020		DATE MAILED: 05/16/2003		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 69 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 69 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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Chun M. Ng			KANG, DONGHEE	
BLAKELY, SOKO Seventh Floor	DLOFF, TAYLOR & ZAFM	IAN LLP	ART UNIT	PAPER NUMBER
12400 Wilshire Bo			2811	
Los Angeles, CA 9 UNITED STATES			DATE MAILED: 05/16/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

		Application No.	Applicant(s)	UIVC	
Aladian of Au		09/865,929	CLU BAIN LBAIA		
Notice of Allow	<i>rability</i>	Examiner	CHI, MIN-HWA		
		i			
		Donghee Kang	2811		
The MAILING DATE of All claims being allowable, PROSECU herewith (or previously mailed), a Noti NOTICE OF ALLOWABILITY IS NOT of the Office or upon petition by the ap	ce of Allowance (PTOL-85) A GRANT OF PATENT R	or other appropriate communication	plication. If not included	THIS initiative	
 This communication is responsive to 15 April 2003. The allowed claim(s) is/are 11-18. The drawings filed on 15 April 2003 are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All Some* None The drawings filed on 15 April 2003 are accepted by the Examiner. 					
	he priority documents have				
2. U Certified copies of t	he priority documents have	been received in Application No	·		
3. U Copies of the certifi	ed copies of the priority do	cuments have been received in this i	national stage application from	n the	
International Bur	eau (PCT Rule 17.2(a)).				
* Certified copies not received:					
5. Acknowledgment is made of a c	aim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provision	onal application).		
(a) ☐ The translation of the fore	ign language provisional a _l	oplication has been received.	,,		
6. Acknowledgment is made of a cl	aim for domestic priority un	der 35 U.S.C. §§ 120 and/or 121.			
Applicant has THREE MONTHS FROM below. Failure to timely comply will res 7. A SUBSTITUTE OATH OR DECINFORMAL PATENT APPLICATION (F	LARATION must be submi	tted. Note the attached EXAMINED:	S AMENDMENT - NOTICE	DABLE.	
8. CORRECTED DRAWINGS must (a) including changes required 1) hereto or 2) to P	by the Notice of Draftspers	on's Patent Drawing Review(PTO-	948) attached		
		prrection filed, which has be			
(c) including changes required	by the attached Examiner's	Amendment / Comment or in the O	an approved by the Examiner.	•	
, , ····g ······g ······g	by the ditablica Examiner 3	Amendment / Comment or in the O	rice action of Paper No	<u>_</u> ·	
Identifying indicia such as the applica each sheet.	tion number (see 37 CFR 1.8	4(c)) should be written on the drawing	s in the front (not the back) of		
9. DEPOSIT OF and/or INFORM attached Examiner's comment regarding	ATION about the deposi REQUIREMENT FOR TH	t of BIOLOGICAL MATERIAL m E DEPOSIT OF BIOLOGICAL MAT	ust be submitted. Note the ERIAL.		
Attachment(s)					
 1 ☐ Notice of References Cited (PTO-89 3 ☐ Notice of Draftperson's Patent Draw 5 ☐ Information Disclosure Statements (7 ☐ Examiner's Comment Regarding Reformation of Biological Material 	ing Review (PTO-948) PTO-1449), Paper No. 7.	4∐ Interview Summar 6∐ Examiner's Amend	Patent Application (PTO-152) y (PTO-413), Paper Nod ment/Comment nent of Reasons for Allowance		
		J	there Loke		

Application/Control Number: 09/865,929

Art Unit: 2811

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 15 April 2003 has been entered.

Information Disclosure Statement

Acknowledgment is made of receipt of applicant's Information Disclosure
 Statement (PTO-1449) field April 15, 2003.

Allowable Subject Matter

3. Claims 11-18 are allowed.

The following is an examiner's statement of reasons for allowance: Newly provided reference, US patent # 5,448,513, fails to teach or suggest a NAND logic circuit comprising:

a thin transistor formed on thin SOI where the thin transistor has gated n+ and p+ junctions, which serve as switches turning on and off GIDL current on the surface of the junction; a first gate structure formed atop a p-well, said first gate structure being the first input and connected to a first switch; a second gate structure formed atop a p-well, said second gate structure being the second input and connected to a second switch; a

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Art Unit: 2811

p+ structure formed adjacent to a first edge of said first and second gate structure, said p+ structure being the output of said NAND logic circuit; and a n+ structure adjacent a second edge of said first and second gate structure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 703-305-9147. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

dhk May 12, 2003 Steven Loke